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S209	31	(US-20040234575-\$).did. or (US-6156572-\$ or US-5583102-\$ or US-4752582-\$ or US-5652014-\$ or US-6090995-\$ or US-5842477-\$ or US-5126140-\$ or US-5071973-\$ or US-5643712-\$ or US-4350629-\$ or US-5716394-\$ or US-6395299-\$ or US-6399071-\$ or US-5684051-\$ or US-5714359-\$ or US-5696000-\$ or US-5919576-\$ or US-5834029-\$ or US-5830708-\$ or US-5032508-\$ or US-4787900-\$ or US-5607475-\$ or US-5478739-\$ or US-5869127-\$).did. or (WO-9103990-\$ or AU-200042871-\$ or WO-2003094990-\$ or US-5071973-\$ or JP-2002537075-\$ or AU-2003243885-\$ or EP-239644-\$ or US-6090995-\$ or US-20040234575-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/25 17:34
S210	9	(mesothelial erythrocyte erythrocytic) with (glycocalyx glycocalix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/25 17:35
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Biomaterials

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Photochemical immobilization of heparin, dermatan sulphate, dextran sulphate and endothelial cell surface heparan sulphate onto cellulose membranes for the preparation of athrombogenic and antithrombogenic polymers

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Abstract

Heparin (HE), dextran sulphate (DX) of molecular weight 40000 and 500000, dermatan sulphate (DS) and endothelial cell surface heparan sulphate (ES-HS) were immobilized covalently onto cellulose membranes (Visking[®] dialysis tubes) using the photochemical heterobifunctional reagent 4-azido-1-fluoro-2-nitrobenzene (AFNB); 120pmol HE/cm² and 40pmol DS/cm², 3.4pmol DX 500000/cm², 50pmol DX 40000/cm² and 3.6pmol ES-HS/cm² were immobilized. The platelet adhesion of the modified membranes was measured in a modified Baumgartner perfusion chamber with citrated human blood at a defined shear rate. Membranes modified with DX 40000 and DX 500000 showed 80% and 30% platelet adhesion, respectively, heparinized and DS coated membranes showed 50% and 60% platelet adhesion,

respectively, compared with a subendothelial matrix (100% platelet adhesion). ES-HS modified membranes showed no platelet adhesion. *Biomaterials* (1994) **15**, (13) 1043–1048

Author Keywords: Immobilization; photosensitive heterobifunctional crosslinking reagent; heparin; ES-HS; platelet adhesion test

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